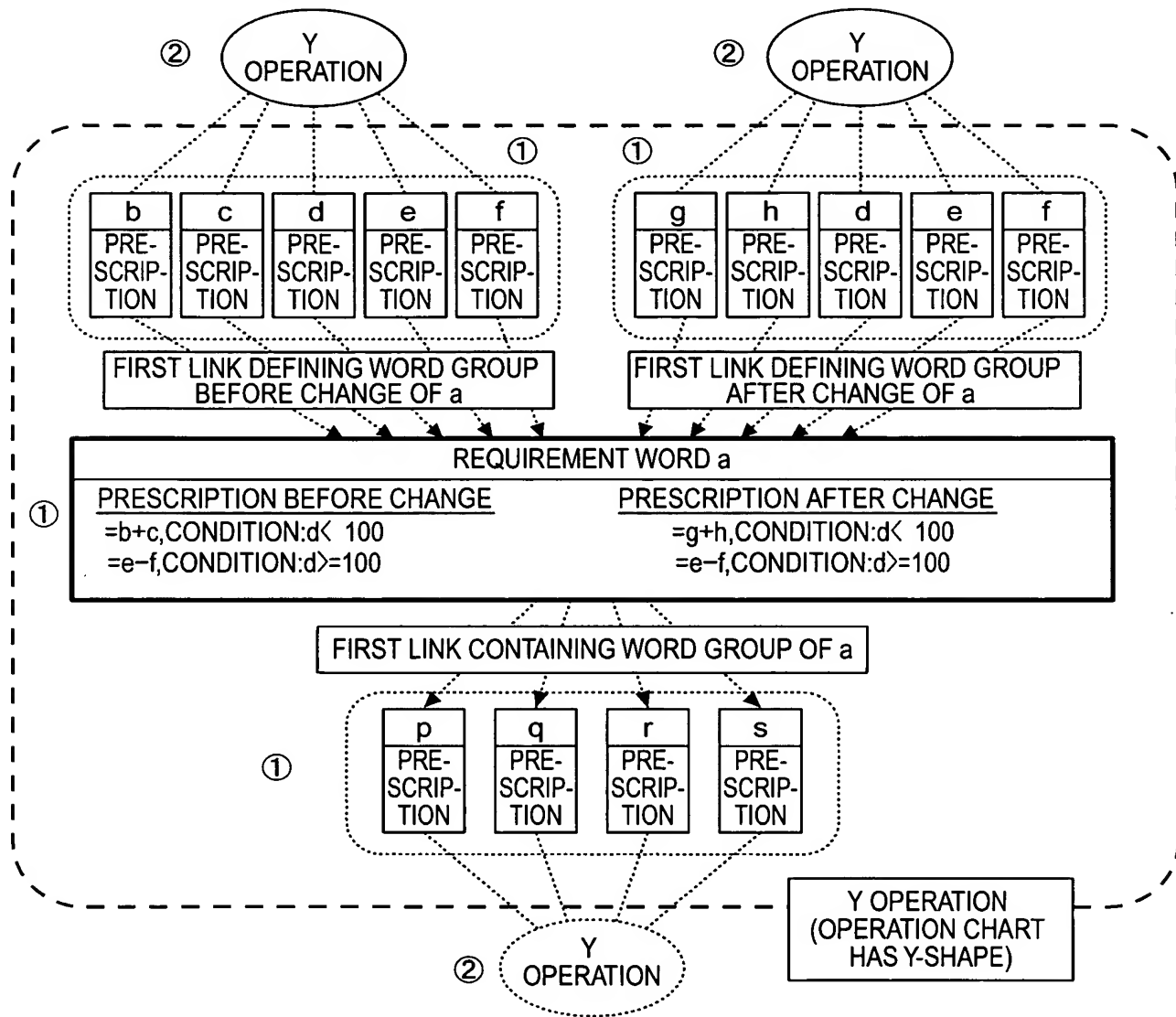


FIG. 1

PROCEDURE DIAGRAM OF PRESCRIPTION CHANGE OF  
REQUIREMENT WORD (Y OPERATION)

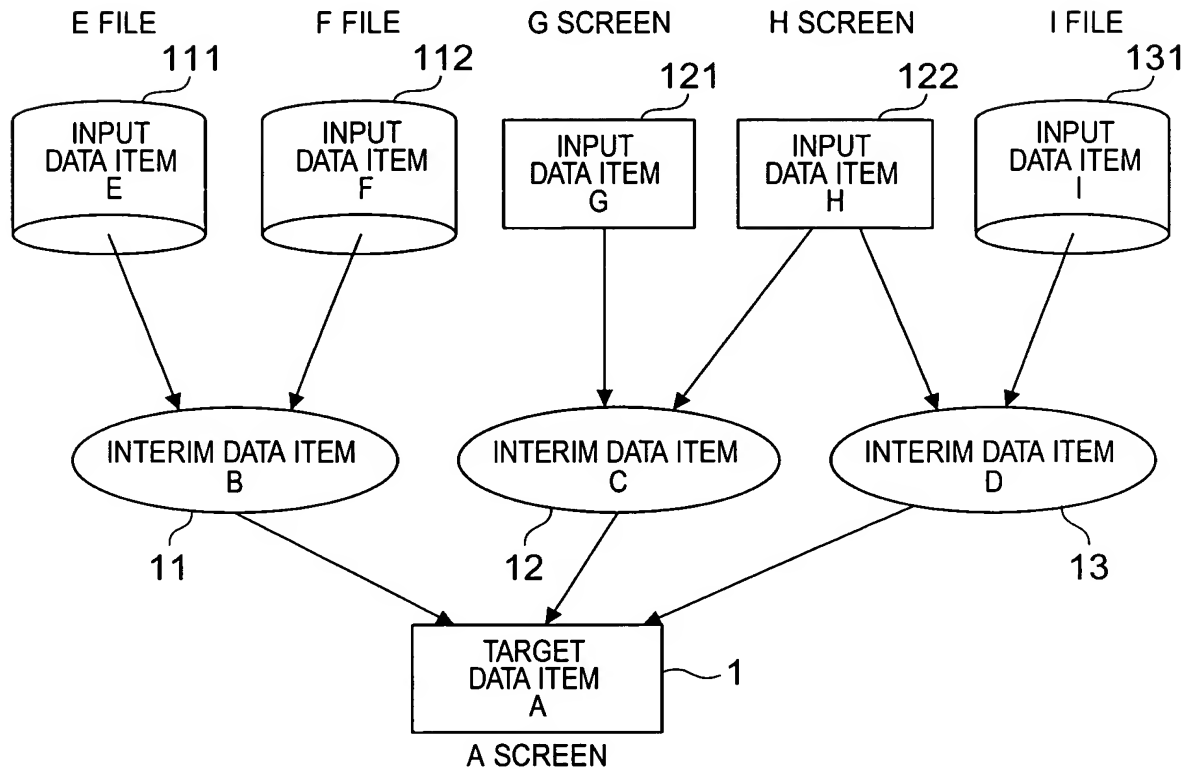


① CHANGE PRESCRIPTION OF REQUIREMENT WORD a.  
EXTRACT FIRST LINK DEFINING WORD GROUP BEFORE AND AFTER CHANGE.  
(b, c, d, e, f, and g, h, d, e, f)  
EXTRACT FIRST LINK CONTAINING WORD GROUP OF THE REQUIREMENT WORD.  
(p, q, r, s)

② STUDY WHETHER OR NOT PRESCRIPTIONS OF INDIVIDUAL REQUIREMENT WORDS OF FIRST LINK DEFINING WORD GROUP AND FIRST LINK CONTAINING WORD GROUP REQUIRE CHANGE. PERFORM Y-OPERATION WITH RESPECT TO THE CORRESPONDING INDIVIDUAL WORDS, IF THERE IS EVEN ONE CHANGE.  
CONTINUE UNTIL THERE IS NOT CHANGE NEEDED IN ALL LINK WORDS.  
END IF THERE IS NOT ANY CHANGE NEEDED IN LIGHT OF THE FACT THAT CHANGE DOES NOT INFLUENCE THE SUBSEQUENT LINK WORDS.

FIG. 2

CHAIN REQUIREMENT DEFINITION METHOD  
(DATA CHAIN REQUIREMENT DEFINITION (DCRD) METHOD)  
RELATION DIAGRAM BETWEEN DATA ITEMS



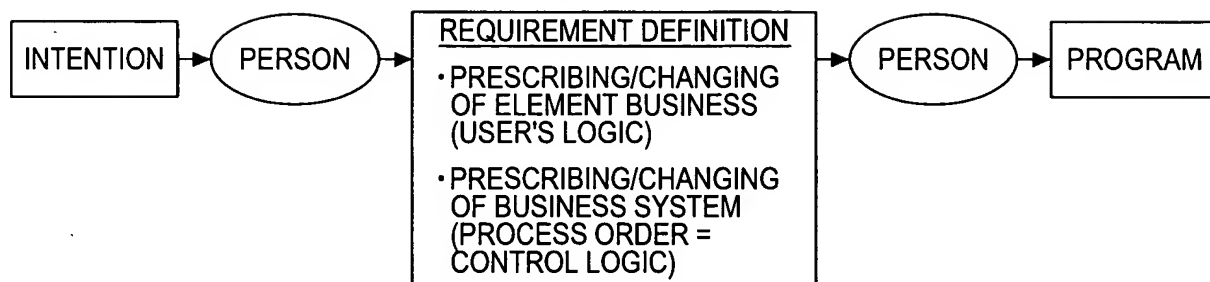
RELATION AMONG DATA ITEMS A, B, C, D SHOWN ABOVE  
INDICATES DATA ITEM A IS CONSTITUTED OF DATA ITEMS B, C, D.





FIG. 3

## CONVENTIONAL METHOD



## AUTOMATIC PROGRAMMING METHOD

